IFWO

**RAW SEQUENCE LISTING** DATE: 08/20/2004
PATENT APPLICATION: **US/10/777,195** TIME: 09:08:49

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\08202004\J777195.raw**

**SEQUENCE LISTING**

(1) GENERAL INFORMATION:
(i) APPLICANT: Takashi OKADO et al.
(ii) TITLE OF INVENTION: GENE REGULATING AUREOBASIDIN SENSITIVITY (AS AMENDED)
(iii) NUMBER OF SEQUENCES: 50
(iv) CORRESPONDENCE ADDRESS:
(A) ADDRESSEE: WENDEROTH, LIND & PONACK, L.L.P.
(B) STREET: 2033 K Street, N.W., #800
(C) CITY: Washington
(D) STATE: D.C.
(E) COUNTRY: U.S.A.
(F) ZIP: 20006
(v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE: Diskette, 3.5 inch, 1.44 mb
(B) COMPUTER: IBM Compatible
(C) OPERATING SYSTEM: MS-DOS
(D) SOFTWARE: Wordperfect 5.1
(vi) CURRENT APPLICATION DATA:
C--> **(A) APPLICATION NUMBER: US/10/777,195**
C--> **(B) FILING DATE: 13-Feb-2004**
C--> **(vii) PRIOR APPLICATION DATA:**
(A) APPLICATION NUMBER: 09/368,431
(B) FILING DATE: August 5, 1999
(A) APPLICATION NUMBER: 08/716,873
(B) FILING DATE: \
C--> **(viii) ATTORNEY/AGENT INFORMATION:**
(A) NAME: Warren M. Cheek, Jr.
(B) REGISTRATION NUMBER: 33,367
(C) REFERENCE/DOCKET NUMBER: 2003-1772/WMC/00001
C--> **(ix) TELECOMMUNICATION INFORMATION:**
(A) TELEPHONE: 202-721-8200
(B) TELEFAX: 202-721-8250
(C) TELEX:
(2) INFORMATION FOR SEQ ID NO: 1:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 4140 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: Genomic DNA
C--> **(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:**
C--> **AGATCTGTGG CTTCCGGTTG GCTACTTGTA ACCAACTGAT GGTCAGATGG ATCTGCCGTC 60**

(pg. 6)

**ENTERED**

**RAW SEQUENCE LISTING** DATE: 08/20/2004
PATENT APPLICATION: **US/10/777,195** TIME: 09:08:49

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\08202004\J777195.raw**

100 TGTTTTGATT TGAATTTTCC CTGCTCATTC TGATTCTGTG AGAGGCTGCA TTCATTATCA 120
102 CATCTCATAC CCGGCGCCTG CGACTTCGGT CACCTCTGCG GTCTGGCGGT TACCGGGGTC 180
104 CGTCTGAGAC TCGTCAGTCA GCCATTCGAG TATGCGAACT CTGACTTTGC TCACCTAAGA 240
106 GTTTGCACGA GATGCCGAAA TCCTCCTCGA GTAGAGTTTG CAAGGCTTGA ACCTTGGTCC 300
108 TTGAAGCCCG AAAGTGGCTC AGTAGTGGGA TCGATAGTCT GGTTGTTGAA GATTTTCTCC 360
110 TCCACCTTAC CTATGGCCGC TGGCCTTCTC CACCTTTCAG GCTTTCAGGC ACCCTCGGCT 420
112 CGGATTCTGT ATCGTCCGGT ACCGAAGCTA GTCCTAGCTA GTCAAAGCTA GTCCAAGCTA 480
114 GTCTCGTCAA GGTTTGGCGC AGCGCGGTTC CGTGTAAAGT ACAAATTTGA AATACGAATA 540
116 CGCAGTACTC GCAGCCGGCA CTTCCGCTCA GCCCAGGCTC AGAGGCTAAG GGTGTTGGCG 600
118 CTTCCTCATC ATCTTCTTCT CGTCGACCTT TTCCTCTTTC TCTCCCTATC GGTGCTTCTC 660
120 TCCAACCTCA TTCTCAGTCG TTCGCCCATC AGGTTTATAC TCCGGCTCCG TGGCCATCTG 720
122 CCTCCCTCAC GACCTCCTCG TTCCAGGTTT TCCTCTCGAC TGCTGCGCCC TTGCACTTCG 780
124 CCTTGCATCA GTGAAACCCC CTGCAACGTG ACGGCTCAAA GACATCCTCG TTTGGCCGCT 840
126 GGAGACCGGA GCGTGCGCTT CGTTTCGTCT TCTTCGAACC GATCTCAATT TCCCCGCTCG 900
128 GGTTGACGCC GTCAGCACCC TGCTCGTTGC CTAACGGCTT GTTATTCAAG ACCCCTTTTC 960
130 TGCCGCTTCC GCGACCGATT TATTCGTCGC CTTCCAACTC TTGTACAATC GGGGGGAAAG 1020
132 AAAGCAGACG GAGTTCGATC TGGAGGAATT ATAGCTGAGT CTTGCCCGCA AGACTCGCCG 1080
134 CAACCATGAA TCAAACACTT CCCACGTGGA AGGACCGCAC GCAGAACCAG TTTGGAAAGC 1140
136 TTCAGATCCA GGTTCCATGG CGGTCCATCC AACTGCTCGT CCCGCATCGC ATGCGGCGGA 1200
138 AGTTAAGGTC CAAATTGCGC AGTAGAGCGT CTCCTACCTC GTCAATAGCC TCTTTACAGA 1260
140 CGTCGTTATC GCCTGCAGAC ACACTACGAT CGCTCCAAAG CCACCGATGG ACGGTTTACG 1320
142 ACTTCCAATA TCTGCTTCTG TTGATCGTGG GCATCTTCTC TTTGACCGTT ATCGAGTCGC 1380
144 CCGGGCCTTT GGGCAAAACG GCCATTTTCT CCATGCTCCT ATTCTCTCTC CTGATCCCTA 1440
146 TGACCCGCCA GTTCTTCCTC CCGTTTCTGC CGATTGCCGG ATGGCTTCTG TTTTTCTACG 1500
148 CCTGCCAGTG AGTTAAAAAC AACCCGCTAC CAGACCCCGT GCAGCAGTTA CTCACATATG 1560
150 CAGGTTCATC CCAAGCGATT GGCGCCCTGC GATTTGGGTT CGTGTCTTGC CTGCACTGGA 1620
152 GAATATTCTC TACGGCGCAA ACATCAGCAA CATCCTATCC GCTCACCAGA ACGTTGTGCT 1680
154 TGACGTGCTG GCGTGGCTAC CCTACGGTAT CTGCCACTAT GGCGCTCCGT TTGTGTGCTC 1740
156 GTTGATCATG TTCATCTTCG GTCCGCCCGG CACTGTTCCC CTTTTCGCGC GCACTTTCGG 1800
158 CTATATCAGT ATGACTGCGG TTACTATTCA GCTGTTTTTC CCTTGCTCTC CACCTTGGTA 1860
160 TGAGAATCGC TATGGTCTAG CTCCGGCAGA CTACTCCATC CAAGGTGATC CCGCAGGGCT 1920
162 TGCCCGCATT GACAAGCTTT TCGGCATCGA CCTTTACACG TCTGTTTTCC ATCAGTCGCC 1980
164 TGTTGTGTTC GGCGCTTTTC CGTCGCTGCA TGCTGCCGAC TCAACCCTGG CCGCACTTTT 2040
166 CATGAGTCAT GTTTTCCCCC GCATGAAGCC CGTCTTCGTG ACCTATACTC TATGGATGTG 2100
168 GTGGGCAACA ATGTACCTCT CACATCACTA TGCGGTCGAT TTGGTTGCGG GTGGTCTCCT 2160
170 GGCCGCCATT GCTTTCTACT TCGCCAAGAC CCGATTCCTT CCCCGTGTCC AGCTCGACAA 2220
172 GACCTTCCGT TGGGACTACG ACTATGTGGA ATTCGGCGAG TCTGCCCTGG AGTATGGGTA 2280
174 TGGTGCAGCT GGCTATGATG GAGACTTCAA TCTCGACAGC GATGAATGGA CTGTTGGTTC 2340
176 TTCATCCTCC GTCTCCTCAG GCTCCTTGAG TCCCGTTGAC GATCATTACT CATGGGAAAC 2400
178 CGAGGCACTG ACCTCCCCAC ATACTGATAT TGAGTCCGGC AGGCATACTT TCAGCCCTTG 2460
180 AGTAGCCACA AACCAAACTC GATACCTGCA TATAGCGATC TCGCTCCTCC TCCACTGCAT 2520
182 CTATTTACGA GACGGCGTTA GAACATTTCA CGACATTCTG GCTTTATTGC ATCGAGCACA 2580
184 TTTCGACACA TATATCTTTA ATACCCTTTC TTCGGTGTCC CAGATCATCG GTTCGACCTT 2640
186 AATGTACCTC GGTCCGAATC CGCCTGGGAT ACTGTTTCTC TTTCCGCCGC ACTTCACTGT 2700
188 ACATTGCTTG ACATTGCGAA ACCGGGTTGG GCTCGAACGT GGGATGGGTT ATCGCTCATC 2760
190 GCTACACGCC GTTGCTCCAT CATAATGTTA ATGGACACAA TGGGGCTACG CATCCTGGTG 2820
192 TTTAGTCCTG GAAGACCATC CGATAACCCC CGTCGGTAAC ACTCGCTTGT CTCGTGTCCA 2880
194 CCCAGACACT ACTTCAATTC TCACTTCTAT CGTCCGCTAT TACCTTGACC TGGTCGAACC 2940
196 CATCCTTATT ATTCGTTTCG ACTATGCTAT ATATTTATTT TTACCATTCG TGTCGATCGC 3000

**RAW SEQUENCE LISTING** DATE: 08/20/2004
PATENT APPLICATION: **US/10/777,195** TIME: 09:08:49

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\08202004\J777195.raw**

TCATACTCTT GGCGCTTGGG ACTGGAAGCA TTTATATTGG AAAAAATCAC GGAATGGGGC 3060
GCCTTTTCTT CTTGCACTTC ACTCGCTGTG CATAGACGGT TTTACATTTC TGCTTTGCAA 3120
TGCATCACGA ACTCTGCATT AGCATATAGA AAGAGGGGAA GGATGGACCT TCTTCTTGAT 3180
TGCTCGCATG GTTTATCCAT TCGCTCAAAG TGGATTACGT CCACATATTA CCCGGGGGCT 3240
ATACACATGG CTACTGTGTT GCTTTCTGAC ATTCGCCGGA CGTGCAAGGT TGGGAGGAGA 3300
GTCTGACGCT GACGGGGCTT GTTGAAGGAT GTTCACGCGT CCCGATTTGA CCCGGCTTCG 3360
ACTAACCTCA GATTCTCGAC TTGTTGGACG GTGACTTGAC TTGCTTGCTA TGGTCTGACG 3420
CTCTCACACC TACCTATCAC ATCCTCCTCA CCTCACAAAT TCCGCTCATG GACACTATCC 3480
TCTTCTTTTC GTTTCCCTTG GATAGTGTGT GTGTGTGTGT GGTTGGGGCA AATTATCCAT 3540
AGCAGCAGTA TTATTAGTTA TAATCCGGTA GTGTTATGAT TTATGAAGGC AACTTGTATA 3600
CTATTGCCAC TTTGTCCATA TCTCTTGCTT GTAATAGAAC TGACATCGCG ACGCTTCGGC 3660
CACGATGCAT ATAAAAACTC TAGTCAACAC GATATTAACA AGCGAAACCA TTACGCTGTA 3720
AACTATTCAG GATCGCCGCG GGCCCATCTG GGACTTGACT GTACTAAATA TGTCCTAAAG 3780
CAAGCAGACT AAATATTTAA CGTGGGATAT TATTCATATA CGCATATGTA TACATAGTCA 3840
TAACAAGCCA AGGGGTGGGT AGGGGTGGGT AATTATTATT TTTTTTCGTC GATACAAGTA 3900
TCCATCCTTA AATGTCCGTG GTCTACTCTT CATAAATCTT AACCCGCTCC GCATACTCCT 3960
TTATCCTCGA GACAAAAGTG TCTTCAATTT CATCGCCACG GCCACCAGCA ACGCGGAGGA 4020
TAAGGTCGTT GAGAGAGGCG CGGCCGAGAA TGTCGACATG GTCGCCTTCA TATTGTTAGC 4080
ATGCGACGTC AGACTGGAAC CAGGAAGGGA AAGGAGAGAG GTACCTGTAT TTGGACCACC 4140

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 439 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

```
Met Asn Gln Thr Leu Pro Thr Trp Lys Asp Arg Thr Gln Asn Gln
 1               5                  10                  15
Phe Gly Lys Leu Gln Ile Gln Val Pro Trp Arg Ser Ile Gln Leu
            20                  25                  30
Leu Val Pro His Arg Met Arg Arg Lys Leu Arg Ser Lys Leu Arg
        35                  40                  45
Ser Arg Ala Ser Pro Thr Ser Ser Ile Ala Ser Leu Gln Thr Ser
    50                  55                  60
Leu Ser Pro Ala Asp Thr Leu Arg Ser Leu Gln Ser His Arg Trp
65                  70                  75
Thr Val Tyr Asp Phe Gln Tyr Leu Leu Leu Leu Ile Val Gly Ile
                80                  85                  90
Phe Ser Leu Thr Val Ile Glu Ser Pro Gly Pro Leu Gly Lys Thr
            95                 100                 105
Ala Ile Phe Ser Met Leu Leu Phe Ser Leu Leu Ile Pro Met Thr
        110                 115                 120
Arg Gln Phe Phe Leu Pro Phe Leu Pro Ile Ala Gly Trp Leu Leu
    125                 130                 135
Phe Phe Tyr Ala Cys Gln Phe Ile Pro Ser Asp Trp Arg Pro Ala
140                 145                 150
Ile Trp Val Arg Val Leu Pro Ala Leu Glu Asn Ile Leu Tyr Gly
155                 160                 165
```

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PATENT APPLICATION: **US/10/777,195** TIME: 09:08:49

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\08202004\J777195.raw**

```
300          Ala Asn Ile Ser Asn Ile Leu Ser Ala His Gln Asn Val Val Leu
302                          170                 175                 180
304          Asp Val Leu Ala Trp Leu Pro Tyr Gly Ile Cys His Tyr Gly Ala
306                          185                 190                 195
308          Pro Phe Val Cys Ser Leu Ile Met Phe Ile Phe Gly Pro Pro Gly
310                          200                 205                 210
312          Thr Val Pro Leu Phe Ala Arg Thr Phe Gly Tyr Ile Ser Met Thr
314                          215                 220                 225
316          Ala Val Thr Ile Gln Leu Phe Phe Pro Cys Ser Pro Pro Trp Tyr
318                          230                 235                 240
320          Glu Asn Arg Tyr Gly Leu Ala Pro Ala Asp Tyr Ser Ile Gln Gly
322                          245                 250                 255
324          Asp Pro Ala Gly Leu Ala Arg Ile Asp Lys Leu Phe Gly Ile Asp
326                          260                 265                 270
328          Leu Tyr Thr Ser Val Phe His Gln Ser Pro Val Val Phe Gly Ala
330                          275                 280                 285
332          Phe Pro Ser Leu His Ala Ala Asp Ser Thr Leu Ala Ala Leu Phe
334                          290                 295                 300
336          Met Ser His Val Phe Pro Arg Met Lys Pro Val Phe Val Thr Tyr
338                          305                 310                 315
340          Thr Leu Trp Met Trp Trp Ala Thr Met Tyr Leu Ser His His Tyr
342                          320                 325                 330
344          Ala Val Asp Leu Val Ala Gly Gly Leu Leu Ala Ala Ile Ala Phe
346                          335                 340                 345
348          Tyr Phe Ala Lys Thr Arg Phe Leu Pro Arg Val Gln Leu Asp Lys
350                          350                 355                 360
352          Thr Phe Arg Trp Asp Tyr Asp Tyr Val Glu Phe Gly Glu Ser Ala
354                          365                 370                 375
356          Leu Glu Tyr Gly Tyr Gly Ala Ala Gly Tyr Asp Gly Asp Phe Asn
358                          380                 385                 390
360          Leu Asp Ser Asp Glu Trp Thr Val Gly Ser Ser Ser Ser Val Ser
362                          395                 400                 405
364          Ser Gly Ser Leu Ser Pro Val Asp Asp His Tyr Ser Trp Glu Thr
366                          410                 415                 420
368          Glu Ala Leu Thr Ser Pro His Thr Asp Ile Glu Ser Gly Arg His
370                          425                 430                 435
372          Thr Phe Ser Pro
378 (2)  INFORMATION FOR SEQ ID NO: 3:
380       (i)  SEQUENCE CHARACTERISTICS:
382            (A) LENGTH: 2856 base pairs
384            (B) TYPE: nucleic acid
386            (C) STRANDEDNESS: double
388            (D) TOPOLOGY: linear
390      (ii)  MOLECULE TYPE: cDNA
392      (xi)  SEQUENCE DESCRIPTION: SEQ ID NO: 3:
C--> 396      GGTTTATACT CCGGCTCCGT GGCCATCTGC CTCCCTCACG ACCTCCTCGT TCCAGGTTTT   60
398      CCTCTCGACT GCTGCGCCCT TGCACTTCGC CTTGCATCAG TGAAACCCCC TGCAACGTGA  120
400      CGGCTCAAAG ACATCCTCGT TTGGCCGCTG GAGACCGGAG CGTGCGCTTC GTTTCGTCTT  180
402      CTTCGAACCG ATCTCAATTT CCCCGCTCGG GTTGACGCCG TCAGCACCCT GCTCGTTGCC  240
```

RAW SEQUENCE LISTING DATE: 08/20/2004
PATENT APPLICATION: US/10/777,195 TIME: 09:08:49

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\08202004\J777195.raw

404 TAACGGCTTG TTATTCAAGA CCCCTTTTCT GCCGCTTCCG CGACCGATTT ATTCGTCGCC 300
406 TTCCAACTCT TGTACAATCG GGGGGAAAGA AAGCAGACGG AGTTCGATCT GGAGGAATTA 360
408 TAGCTGAGTC TTGCCCGCAA GACTCGCCGC AACCATGAAT CAAACACTTC CCACGTGGAA 420
410 GGACCGCACG CAGAACCAGT TTGGAAAGCT TCAGATCCAG GTTCCATGGC GGTCCATCCA 480
412 ACTGCTCGTC CCGCATCGCA TGCGGCGGAA GTTAAGGTCC AAATTGCGCA GTAGAGCGTC 540
414 TCCTACCTCG TCAATAGCCT CTTTACAGAC GTCGTTATCG CCTGCAGACA CACTACGATC 600
416 GCTCCAAAGC CACCGATGGA CGGTTTACGA CTTCCAATAT CTGCTTCTGT TGATCGTGGG 660
418 CATCTTCTCT TTGACCGTTA TCGAGTCGCC CGGGCCTTTG GGCAAAACGG CCATTTTCTC 720
420 CATGCTCCTA TTCTCTCTCC TGATCCCTAT GACCCGCCAG TTCTTCCTCC CGTTTCTGCC 780
422 GATTGCCGGA TGGCTTCTGT TTTTCTACGC CTGCCAGTTC ATCCCAAGCG ATTGGCGCCC 840
424 TGCGATTTGG GTTCGTGTCT TGCCTGCACT GGAGAATATT CTCTACGGCG CAAACATCAG 900
426 CAACATCCTA TCCGCTCACC AGAACGTTGT GCTTGACGTG CTGGCGTGGC TACCCTACGG 960
428 TATCTGCCAC TATGGCGCTC CGTTTGTGTG CTCGTTGATC ATGTTCATCT TCGGTCCGCC 1020
430 CGGCACTGTT CCCCTTTTCG CGCGCACTTT CGGCTATATC AGTATGACTG CGGTTACTAT 1080
432 TCAGCTGTTT TTCCCTTGCT CTCCACCTTG GTATGAGAAT CGCTATGGTC TAGCTCCGGC 1140
434 AGACTACTCC ATCCAAGGTG ATCCCGCAGG GCTTGCCCGC ATTGACAAGC TTTTCGGCAT 1200
436 CGACCTTTAC ACGTCTGTTT TCCATCAGTC GCCTGTTGTG TTCGGCGCTT TTCCGTCGCT 1260
438 GCATGCTGCC GACTCAACCC TGGCCGCACT TTTCATGAGT CATGTTTTCC CCCGCATGAA 1320
440 GCCCGTCTTC GTGACCTATA CTCTATGGAT GTGGTGGGCA ACAATGTACC TCTCACATCA 1380
442 CTATGCGGTC GATTTGGTTG CGGGTGGTCT CCTGGCCGCC ATTGCTTTCT ACTTCGCCAA 1440
444 GACCCGATTC CTTCCCCGTG TCCAGCTCGA CAAGACCTTC CGTTGGGACT ACGACTATGT 1500
446 GGAATTCGGC GAGTCTGCCC TGGAGTATGG GTATGGTGCA GCTGGCTATG ATGGAGACTT 1560
448 CAATCTCGAC AGCGATGAAT GGACTGTTGG TTCTTCATCC TCCGTCTCCT CAGGCTCCTT 1620
450 GAGTCCCGTT GACGATCATT ACTCATGGGA AACCGAGGCA CTGACCTCCC CACATACTGA 1680
452 TATTGAGTCC GGCAGGCATA CTTTCAGCCC TTGAGTAGCC ACAAACCAAA CTCGATACCT 1740
454 GCATATAGCG ATCTCGCTCC TCCTCCACTG CATCTATTTA CGAGACGGCG TTAGAACATT 1800
456 TCACGACATT CTGGCTTTAT TGCATCGAGC ACATTTCGAC ACATATATCT TTAATACCCT 1860
458 TTCTTCGGTG TCCCAGATCA TCGGTTCGAC CTTAATGTAC CTCGGTCCGA ATCCGCCTGG 1920
460 GATACTGTTT CTCTTTCCGC CGCACTTCAC TGTACATTGC TTGACATTGC GAAACCGGGT 1980
462 TGGGCTCGAA CGTGGGATGG GTTATCGCTC ATCGCTACAC GCCGTTGCTC CATCATAATG 2040
464 TTAATGGACA CAATGGGGCT ACGCATCCTG GTGTTTAGTC CTGGAAGACC ATCCGATAAC 2100
466 CCCCGTCGGT AACACTCGCT TGTCTCGTGT CCACCCAGAC ACTACTTCAA TTCTCACTTC 2160
468 TATCGTCCGC TATTACCTTG ACCTGGTCGA ACCCATCCTT ATTATTCGTT TCGACTATGC 2220
470 TATATATTTA TTTTTACCAT TCGTGTCGAT CGCTCATACT CTTGGCGCTT GGGACTGGAA 2280
472 GCATTTATAT TGGAAAAAAT CACGGAATGG GGCGCCTTTT CTTCTTGCAC TTCACTCGCT 2340
474 GTGCATAGAC GGTTTTACAT TTCTGCTTTG CAATGCATCA CGAACTCTGC ATTAGCATAT 2400
476 AGAAAGAGGG GAAGGATGGA CCTTCTTCTT GATTGCTCGC ATGGTTTATC CATTCGCTCA 2460
478 AAGTGGATTA CGTCCACATA TTACCCGGGG GCTATACACA TGGCTACTGT GTTGCTTTCT 2520
480 GACATTCGCC GGACGTGCAA GGTTGGGAGG AGAGTCTGAC GCTGACGGGG CTTGTTGAAG 2580
482 GATGTTCACG CGTCCCGATT TGACCCGGCT TCGACTAACC TCAGATTCTC GACTTGTTGG 2640
484 ACGGTGACTT GACTTGCTTG CTATGGTCTG ACGCTCTCAC ACCTACCTAT CACATCCTCC 2700
486 TCACCTCACA AATTCCGCTC ATGGACACTA TCCTCTTCTT TTCGTTTCCC TTGGATAGTG 2760
488 TGTGTGTGTG TGTGGTTGGG GCAAATTATC CATAGCAGCA GTATTATTAG TTATAATCCG 2820
490 GTAGTGTTAT GATTTATGAA GGCAACTTGT ATACTA 2856

494 (2) INFORMATION FOR SEQ ID NO: 4:
496 (i) SEQUENCE CHARACTERISTICS:
498 (A) LENGTH: 439 amino acids
500 (B) TYPE: amino acid
502 (C) STRANDEDNESS: single

**RAW SEQUENCE LISTING ERROR SUMMARY** DATE: 08/20/2004
PATENT APPLICATION: **US/10/777,195** TIME: 09:08:50

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\08202004\J777195.raw**

**Please Note:**
**Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.**

Seq#:9; Xaa Pos.3,7
Seq#:11; Xaa Pos.5,9
Seq#:25; N Pos. 18,24
Seq#:26; N Pos. 18,21

**VERIFICATION SUMMARY** DATE: 08/20/2004
PATENT APPLICATION: **US/10/777,195** TIME: 09:08:50

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\08202004\J777195.raw**

```
L:48 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:50 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:52 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:58 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:64 M:220 C: Keyword misspelled or invalid format, [(viii) ATTORNEY/AGENT INFORMATION:]
L:72 M:220 C: Keyword misspelled or invalid format, [(ix) TELECOMMUNICATION INFORMATION:]
L:95 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]
L:98 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=1
L:396 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=3
L:1220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:1288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:1312 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=12
L:1432 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=13
L:1550 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=14
L:1666 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=15
L:1900 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=17
L:2134 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=19
L:2360 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=21
L:2586 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=23
L:3200 M:111 C: (47) String data converted to upper case,
L:3222 M:111 C: (47) String data converted to upper case,
L:3244 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=27
L:3488 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=29
L:3564 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=31
L:3640 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=32
L:3764 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=35
L:3984 M:111 C: (47) String data converted to upper case,
L:4006 M:111 C: (47) String data converted to upper case,
L:4028 M:111 C: (47) String data converted to upper case,
L:4050 M:111 C: (47) String data converted to upper case,
L:4072 M:111 C: (47) String data converted to upper case,
L:4350 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=44
```

**VERIFICATION SUMMARY** DATE: 08/20/2004
PATENT APPLICATION: **US/10/777,195** TIME: 09:08:50

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\08202004\J777195.raw**

L:4412 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=45
L:4474 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=46
L:4536 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=47
L:4598 M:111 C: (47) String data converted to upper case,
L:4620 M:111 C: (47) String data converted to upper case,
L:4642 M:111 C: (47) String data converted to upper case,